

ECE 179d Segway Worksheet

Parameter	Value [units]
Lboxedge (Body Height)	[m]
L (Distance Between body COM and wheel axis)	[m]
Rw (wheel radius)	[m]
mb (body mass)	[kg]
mw (combined wheel mass)	[kg]
gyro offset (in simulink model -- ask TA)	[mV]
accelerometer offset (in simulink model -- ask TA)	[deg]

M

Am

Bm

A

B

R

--

Open Loop Poles

--	--	--	--

Q

Closed Loop Poles

--	--	--	--

K

--	--	--	--